

IN THE CLAIMS

Claims 1-5, 7, 8 and 10-14 are amended. Claims 6, 9 and 14 are cancelled, all as follows.

1. (Currently Amended) A noninvasive and remote method of identifying and measuring at the neurological manifestation in human speech of an early non-tremor phase of Parkinson's and other neuro disease including diseases comprising:
 - converting a human subject's spoken words into corresponding electrical signals;
 - amplifying said electrical signals;
 - frequency band limiting, and signal conditioning the said electrical signals to produce modified signals;
 - determining anthe envelope of said modified signals;
 - determining atthe spectral density of said modified signals and providing to provide a spectral density signal;
 - smoothing said spectralthe density signal;
 - determining atthe spectral envelope of saidthe smoothed spectral density signal;
 - determining the presence of a depression in said spectral envelope;
 - determining anthe amplitude of said depression with reference to anthe average db level of two shoulder peaks in said spectral density signal on either side of said depression; and
 - determining atthe ratio of saidthe amplitudes of saidthe depression and said average db level of said two shoulder peaks[[.]]; and
 - using said ratio for identifying and measuring a neurological manifestation in the

subject's spoken word, of early phases of neuro disease.

2. (Currently Amended) The method of claim 1, further including multiplying said ratio by a constant k to obtain a Parkinson Severity Index ~~for Parkinson~~.
3. (Currently Amended) The method of claim 12, further including ~~means for~~ determining a compressed range for said Parkinson Severity Index by selecting a narrow bandwidth corresponding to ~~at~~the first format of said electrical signals speech signal.
4. (Currently Amended) The method of claim 12, further including converting said spoken words using~~via~~ telephony computer boards ~~for on-the-telephone interactive operation~~.
5. (Currently Amended) The method of claim 12, further including detecting~~detections~~ parameters corresponding to Parkinson neuro disorders.
6. (Cancelled)
7. (Currently Amended) The method of claim 2, further including separating Parkinson's diseases~~separation of Parkinson from said neuro atrophy or dyskinesia and brain cell damage and other neuro disorders, by using different constants~~parameters than those of Parkinson.

8. (Currently Amended) The method of claim 12, further including using said ratio and providing prediagnostic assistance to a physician for use in treating said neuro diseased disorders.

9. (Cancelled)

10. (Currently Amended) The method of claim 12, further including using said ratio and detecting brain cell damage.

11. (Currently Amended) The method of claim 12, further including using said ratio and detecting dykinesia.

12. (Currently Amended) The method of claim 12, further including using said ratio and detecting neuro atrophy.

13. (Currently Amended) The method of claim 12, further including using said ratio and detecting neuropathy.

14. (Cancelled)